

ECHO Technical Committee Notes 12.10.2013

Due to numerous closings due to inclement weather here on the East Coast and the convening of AGU 2013 on the West Coast, there is no ETC call today. However, I have included ECHO status and am requesting some feedback on a couple of issues.

Discussion Topics

Relevance Sorting in Reverb

Reverb User Settings and Saved Queries

FYI: Reverb Mapping Changes

Order Workflow

Upcoming Planned Maintenance 12/11

Please email me for more information or to provide feedback. kathleen.baynes@nasa.gov

Dial-In

Information

n

No Call Today

ECHO System Status

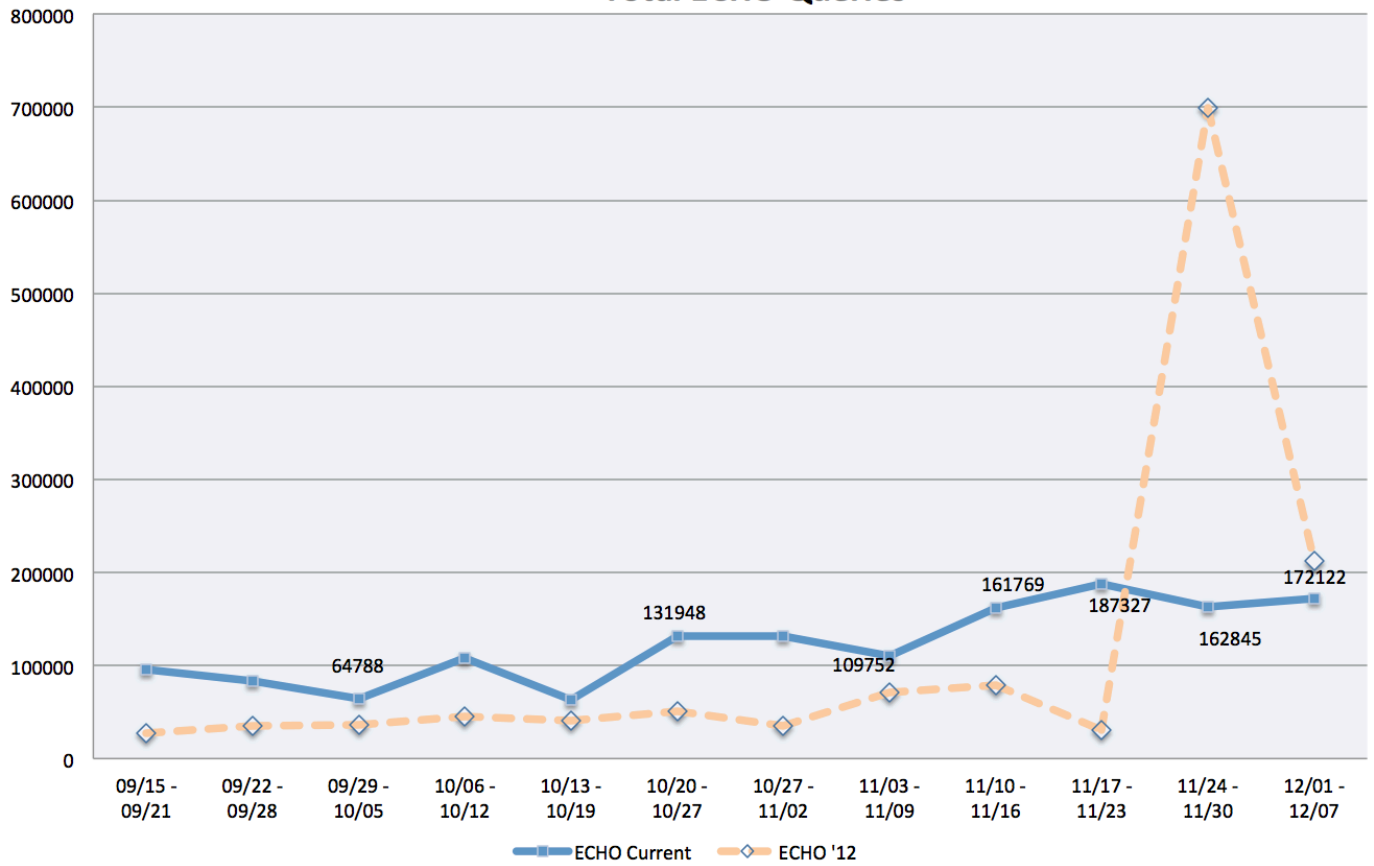
System Issues

Over the past 2 weeks we have experienced 3 Operational Outages and have written up the causes and responses to those outages. Please refer to the following Degraded Service Event write-ups for more information. Contact us at echo@echo.nasa.gov for more information.

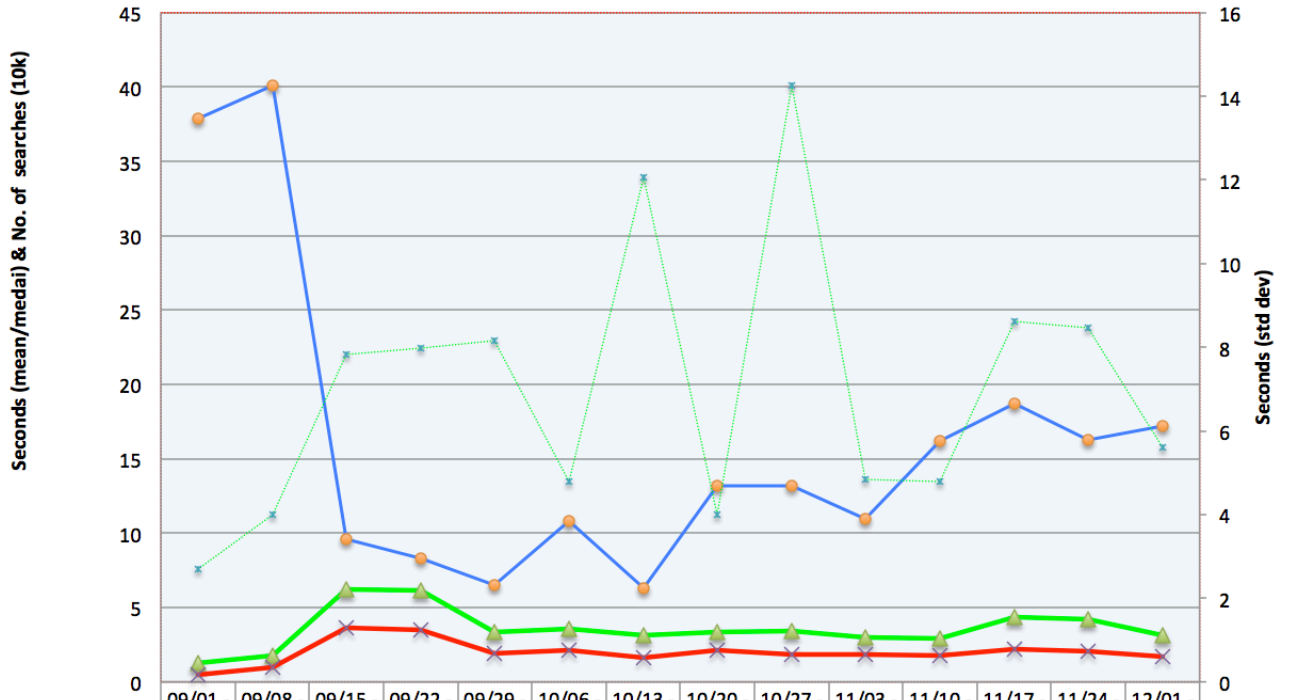
- [11/27/13 ECHO operations outage](#)
- [12/03/13 ECHO operations outage](#)
- [12/03/13 Earthdata/URS/ECHO operations outage](#)

Recent Metrics

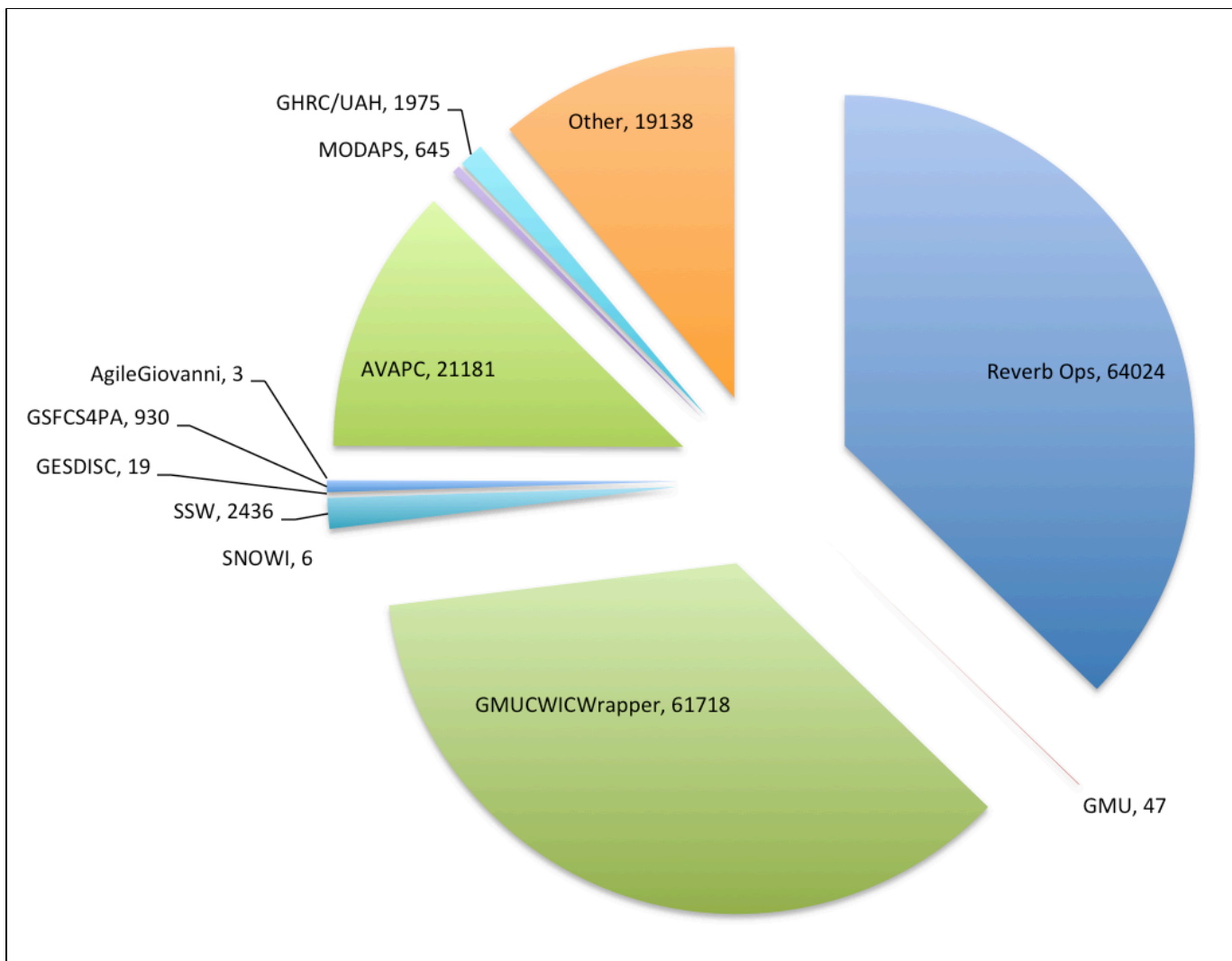
Total ECHO Queries



Average Query Performance



Avg Exec Time	1.2613	1.7592	6.2544	6.1221	3.3343	3.5624	3.1241	3.3543	3.4403	2.9655	2.93	4.33	4.21	3.13
Median Exec. Time	0.451	1.004	3.625	3.472	1.939	2.105	1.624	2.115	1.855	1.859	1.76	2.22	2.04	1.67
Totals (*10k)	37.8535	40.0983	9.5714	8.3091	6.4788	10.8213	6.3087	13.1948	13.1738	10.9752	16.1769	18.7327	16.2845	17.2122
Exec Time Std. Dev.	2.6865	3.9887	7.8326	7.9674	8.1477	4.7989	12.0651	3.9881	14.2568	4.842	4.8	8.61	8.46	5.6



Release Status

In Operations: 10.70 (to Operations 12/4/13)

NCR	Summary
11014037	Investigate use of OpenLayers from GIBS to replace Granule Results/Collection Information Maps
11014184	Reverb Map View: Move legend off the map
11014198	Reverb: Handling of browse image error messages should be changed (NSIDC should review comment from Development)
11014206	Add DIF support for collections
11014210	Transition issue for new order workflow (Order Workflow)
11014213	Unable to submit orders on Reverb in TS1 (Order Workflow) (NSIDC)
11014215	New order page needs Javascript validation that the option selection forms are valid prior to submission (Order Workflow)
11014216	Growl message displaying Reverb page instead of error message on failed order submission (Order Workflow)
11014217	Attempting to submit order after it failed previously is causing duplicate items to be added to the order (Order Workflow)

11014219	Checking for whether all granules are indexed for a dataset should use the correct indexed_at column based on elastic index configuration
11014221	Editing contact information should be 'cancelable' (Order Workflow) (NSIDC)
11014222	ECHO form visualization formatting may confuse the user (unplanned)
11014223	NRT button should open page in new window/tab (unplanned)
11014225	Unable to add collections to an ACL after REST only transition (unplanned)
11014229	New ordering page: When using the delete selected items, counts are not updated (unplanned)
11014230	Paging through expanded items in new order workflow lacks spinner. (unplanned)
11014238	Reverb Partner Test: Add Selected to Cart Not Working (Order Workflow) (NSIDC) (unplanned)
11014239	TS2:Release 8.2: BMGT: "Additional attributes Values - is not a valid float" errors (LPDAAC) (unplanned)
11014240	Unable to submit orders for NSIDC products using the new work flow (Order Workflow) (NSIDC) (unplanned)
11014245	Partner Test Reverb: Remove All Items not working as expected in the new order workflow (Order Workflow) (NSIDC) (unplanned)

In Test: 10.71 (pushed to Test Bed 12/4, to Partner Test tomorrow 12/11, to Operations 12/18)

(4 week sprint, ended 12/6)

Number	Summary
11010695	ECHO:REVERB:ability to search multiple time periods (LPDAAC Review Requested)
11011377	"Refresh" period between the time something is changed in PUMP and shows up in WIST/REVERB is troublesome (LPDAAC)
11013378	ECHO:Reverb: New AST_L1A order options line should be added as last option (Order Workflow) (LPDAAC)
11013400	Reverb: Order Options change request for AST_L1A collection (Order Workflow) (LPDAAC)
11013402	ECHO: The add button should only apply to AST_L1A data for LP DAAC (Order Workflow) (LPDAAC)
11013567	Reverb 10.56.8. URLs are being randomly "split" in granule details (NSIDC)
11013671	Improve error handling in Reverb when Elastic incorrectly contains a Granule/Dataset
11013971	Update Reverb to handle provider policies that specify duplicate items in order per dataset (Order Workflow) (LPDAAC) (internal)
11014211	Change catalog-rest searches to be case insensitive by default
11014241	Inherited links in atom results are not valid URIs
11014242	Improve DIF support in ECHO: Add ability to convert DIF to ISO and improve test coverage
11014243	Atom inherited links are not atom compliant

In Development: 10.72

(4 week sprint, ending 1/3)

Number	Summary
11010275	ECHO Reverb (alpha): Datasets results should be sorted by relevance
11010702	ECHO:REVERB:Export KML file of granule results
11011377	"Refresh" period between the time something is changed in PUMP and shows up in WIST/REVERB is troublesome

11012066	Allow a user to modify the spatial search region on the granule results page
11013284	Reverb Granule Detail Browse jpeg not displayed with I.E. 9
11014242	Improve DIF support in ECHO: Add ability to convert DIF to ISO and improve test coverage
11014270	Visualization: In granule results, 'Map View' should be default tab
11014271	Visualization: Timeline view initial loading spinner should be more apparent
11014277	Visualization: Swap timeline and image tabs
11014278	Visualization: Image View: Create a better visual indicator for granules in shopping cart
11014279	Visualization: Image View: Include an "Add All to cart" button and and "Add All on this Page to Cart" button
11014282	Visualization: Image View: The information pane has the producer granule id running over the edge of the lightbox
11014283	Pop-up Help text should be in a sans-serif font to match look and feel of the rest of Reverb
11014286	Reverb ECHO - FTP Batch Script Download still shows up as available
11014287	Error with galleria theme asset paths in 10.71, Testbed.
11014288	Buttons "Save Granule Results" and "Add Selected to Cart" show/hide incorrectly on "List View" tab
11014290	Visualization: Image View: an inconsistency of the yellow border of the browse and the yellow shopping cart icon
11014291	Visualization: Image View: If only one dataset is selected, the default Image View tab should show pageable set of granules
11014293	Dataset image view should go to all granules from this dataset view if you only have one dataset selected.

Discussion Topics

Relevance Sort vs Alphabetical Sort in Reverb

ECHO's OpenSearch implementation is starting to expose a "relevance" score, which is an indicator on the ranking of the search terms for keyword searches. For more information about the OpenSearch specification of scoring [check out the documentation](#)

To see some preliminary results for OpenSearch ranking in testbed test the following. Note we are still working on our relevance ranking, so don't take these numbers as final results!

```
curl https://testbed.echo.nasa.gov/opensearch/datasets?keyword=MODIS%20aerosol
```

Sample Result Entry:

```
<entry
xmlns:echo="http://www.echo.nasa.gov/esip"
xmlns:georss="http://www.georss.org/georss/1.0"
xmlns:gml="http://www.opengis.net/gml"
xmlns:relevance="http://a9.com/-/opensearch/extensions/relevance/1.0/"
xmlns:time="http://a9.com/-/opensearch/extensions/time/1.0/">
<id>https://testbed.echo.nasa.gov:443/opensearch/datasets.atom?uid=C24959-LAADS</id>
<author>
<name>ECHO</name>
<email>support@echo.nasa.gov</email>
</author>
<title type="text">MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG V005</title>
<summary type="text">MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG</summary>
<updated>2006-03-17T00:00:00.000Z</updated>
<echo:datasetId>MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG V005</echo:datasetId>
<echo:shortName>MYD08_D3</echo:shortName>
<echo:versionId>5</echo:versionId>
<echo:dataCenter>LAADS</echo:dataCenter>
<echo:processingLevelId>3</echo:processingLevelId>
...
<relevance:score>0.5</relevance:score>
...
<dc:date
xmlns:dc="http://purl.org/dc/elements/1.1/">2002-05-04T00:00:00.000Z/
</dc:date>
</entry>
```

We are also interesting in ranking keyword searches on Reverb. For example, if you are searching for "MODIS aerosol" data, a keyword search in Reverb currently returns an alphabetical listing of all collections matching those terms, but in the future, the listing of granules may be sorted by relevance instead.

Some Questions for the ETC

1. Is relevance sort something you think is a good fit for Reverb? Previously, alphabetical sort was requested, but is this something of interest to users?
2. Should relevance sorting be the default?
3. Should Reverb expose a "sort by" selection? If so, how? Dropdown? Checkbox? Column header?
4. Once this goes live in Operations (slated for 10.72), is the algorithm for relevance ranking working as you think it should? The way we are doing relevance searching can be tweaked.

Reverb User Settings and Saved Queries

As of now, users are able to bookmark searches using links from the granule results page, but there have been some NCRs requesting that users have a more centralized "User Settings" place that allows them to set preferences and save searches associated with the user's URS account. This would allow them to access their searches and use preferences from any computer that they use to log into Reverb. I have put together a mock-up of a User Settings page and would like some feedback. Please take a look at the mock-up below. Comments/Questions should be directed at me: kathleen.baynes@nasa.gov

Reverb User Settings

Account Settings

Default Granule Results Tab: Map View ⓘ



Order Email Preference: All Status Changes ⓘ

These preferences are Reverb-specific. To edit your URS Account Information [Click Here](#).

Saved Searches

Search Name	Action
My Saved Search 1	 
My Saved Search 2	 
My Saved Search 3	 

Order Status

Order Id	Status	Date	Cancel?
0d82fba4-ac3d-49ad-a248-f17815fb0d92	Open	1/24/2014	
2cecfdc7-99c7-45b5-aa3d-f72803c5ed93	Open	1/23/2014	
aecf0fff-410b-4506-96d2-7f9716c9259d	Closed	1/17/2014	
1b014b73-134f-4f74-b524-6fb5f7a6f684	Closed	1/10/2014	

Reminder: Please be sure to log out of your account if you are using a shared computer.

[Cancel](#)

Save

FYI: Reverb Mapping Changes, Moving to GIBS OpenLayers

By now, I assume most of you are aware of the GIBS system and its beautiful reference implementation site: [Worldview](#) (if not, check it out!).

We are looking to migrate all of our mapping in Reverb to use the OpenLayers interface exposed by GIBS in the upcoming sprint. This involves moving away from the Google Map on the front page and having slightly different looking layers on the Granule results page of Reverb. Right now, this is an FYI, we are not ready to make the change quite yet, but wanted to make our partners aware of this behind-the-scenes activities.

No date for this transition has been set yet, but it is expected to occur in the early part of 2014.

Order Workflow

New Order Workflow is scheduled to be released to the Operations environment on **10.71**. Mostly working version in Partner Test right now for testing and evaluation.

- While reviewing the Order Workflow and need to file and issue, if you are not familiar with TTPro, please use [Kayako](#) to submit.
- Gates required for deployment to Operations

1. Acceptance testing by user services groups in Partner Test (hopefully underway)
2. NCRs in 10.70 and 10.71
3. 10.71 has multiple order options per granule available, satisfying an LPDAAC requirement (in Test now)

Upcoming Events

Planned Maintenance 12/11

- 10.71 to Partner Test (outage)
- OS Patching to Partner Test (will also trigger outage of Partner Test due to patching of database server)
- OS Patching to Testbed (will trigger outage of Testbed due to patching of database server)
- **Testbed and Partner Test Outage**